## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/01103

A. CLASSIFICATION OF SUBJECT MATTER IPC: B01J 20/00( 2006.01)			
USPC: 502/400 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 502/400,401,402,406,439,526			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where a		Relevant to claim No.
<b>X</b> .	US 5,403,492 A (SALEM et al) 04 April 1995 (04.0	4.1995), abstract, Examples.	1-19
x	US 4,770,790 A (OBERHOFER) 13 September 1988 (13.09.1988), abstract, Examples.		1-19
Α	US 2003/0132167 A1 (HAASE) 17 July 2003 (17.07.2003), entire document.		1-19
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Further	documents are listed in the continuation of Box C.	See patent family annex.	
Special estegories of cited documents:		"T" later document published after the inter	
"A" document defining the general state of the art which is not considered to be of		and not in conflict with the application principle or theory underlying the inver	
particular relevance		"X" document of particular relevance; the c	aimed invention cannot be
"E" earlier app	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone	ed to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"O" document referring to an oral disclosure, use, exhibition or other means			
"P" document published prior to the international filing date but later than the priority date claimed		*& document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report	
12 June 2006 (12.06.2006)		1 4 AUG 2006	
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